

This Approval Sheet indicates the property, test condition, structure and dimension of MF5A-3 series NTC thermistors manufactured by Hefei Sensing Electronic Co., LTD. It is sincerely for your company's confirmation.
 Any doubt, Please contact with us by 86551 65845356, or if there isn't any questions, please refax to confirm.
 Please inform us if you change your usage way of the thermistor.

Customer :		
Customer Confirmation	Confirmer	
	Checker	
	Time	

1、 ELECTRICAL CHARACTERISTIC

Item	Symbol	Test Condition	Performance	Unit
1.1 Rated resistance	R25℃	+25±0.05℃	10±1%	kΩ
1.2 B value	B25/50	+25±0.05℃、+50±0.05℃	3950±1%	K
1.3 Time constant	τ	In still air	≤12	sec
1.4 Dissipation factor	δ	In still air	≥2.0	mW/℃
1.5 Max.Power	Pmax	Ambient Temp. +25℃	≤60	mW

2、 Reliability test

2.1 Intensity : Fix the thermistor probe, pull the lead wire gradually with force 5N for 10±1sec,
 No visible damage.

2.2 Solderability:
 260±5℃ 2±0.5sec
 Cover the solder joint evenly with solder
 $\Delta R_{25}/R_{25} \leq 1\%$

2.3 Solder heat resist:
 260±5℃ 5±1sec solder 6mm away from thermistor probe.
 $\Delta R_{25}/R_{25} \leq 2\%$

2.4 High temp. store (in air)
 125±3℃ 1000h
 $\Delta R_{25}/R_{25} \leq 3\%$

2.5 Low temp. store (in air)
 -40±3℃ 1000h
 $\Delta R_{25}/R_{25} \leq 3\%$

2.6 Heat and Humidity Stability
 40±2℃ 92%RH~98%RH 240h $\Delta R_{25}/R_{25} \leq 3\%$

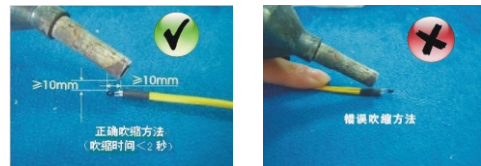
2.7 Temperature shift:
 -40±3℃ × 30min 125±3℃ × 30min 5times
 $\Delta R_{25}/R_{25} \leq 3\%$

Nor.Temp
 2±1min

3、 Operation Notice:

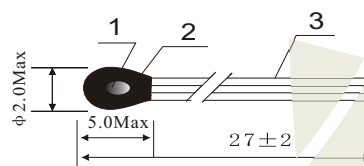
- 3.1 Application: Temperature measure and control;
- 3.2 Operating temperature range: -40℃ ~ +125℃;
- 3.3 Min. cutting length ≥ 6mm;

- 3.4 Avoid measurement error caused by excessive current
- 3.5 While adding heat shrink tube, the outlet of hot air blower should be at least 10mm to the thermistor lest excessive heat shock.



4、 Resistance-Temperature Table: (see accessory)

5、 SIZE DRAWING: unit:mm



Number	Material & spec.
1	Thermistor chip
2	Encapsulating epoxy resin (black)
3	φ0.4 CP wire

File Number	Version	Date	Compile by	Check by
L-KLS6-MF52-A1-103F3950FA	A	2017-12-12	Feng	Du